

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE FR-104-1(39) Forsyth County OFFICE Preconstruction
P.I. No. 121980
DATE August 24, 1990

FROM *JB* J. B. Johnson, Assistant Director Preconstruction

TO SEE DISTRIBUTION

SUBJECT PROJECT CONCEPT REPORT APPROVAL

Attached for your files is the approval for subject project.

JBj/cj

Attachment


DISTRIBUTION:

Juan Durrence
Bob Humphrey
Frank Danchetz
Gene Skeen
Darrell Elwell
Walker Scott
Ron Colvin
Hugh Tyner



DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE FR-104-1(39) Forsyth County OFFICE Preconstruction
P.L. No. 121980

DATE August 13, 1990
FROM William J. "Juan" Durrence, Director of Preconstruction
TO Hal Rives, Commissioner

SUBJECT WIDENING OF SR 141 - PROJECT CONCEPT REPORT

This project is the widening of a 6.21 mile section of SR 141 to provide a divided multilane roadway from 0.6 mi(±) north of Fulton/Forsyth County Line (McGinnis Ferry Road) and extending northerly to the intersection of SR 9. The existing road has a rural section with 24' of pavement and 5' shoulders. There is a 60'x340' bridge over SR 400/US 19. Current and future traffic is 15,600 VPD (1994) and 29,200 VPD (2014).

The proposed project will widen existing SR 141 between above termini to have a rural section with 4-12' lanes (2 each dir.) with a 44' depressed median. Existing lanes will be retained, except where vertical or horizontal alignment changes are required to meet current design standards. Shoulders will be constructed to 10' outside (4' paved) and 6' median side (2' paved) on a minimum of 200' of right-of-way. The bridge over SR 400 will be widened to 88' to accommodate 4-12' lanes, a 20' raised median and 10' shoulders. Environmental considerations are: (1) displacements of 9 residences and 3 businesses; (2) 6 possible historic sites; (3) 8 possible UST sites and (4) nationwide COE permit. A public hearing will be required. The estimated cost of the project is:

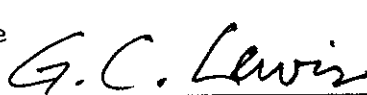
	<u>PROPOSED</u>	<u>APPROVED</u>	<u>LET DATE</u>
Constr(Infl&E/C)	\$17,457,000	\$7,537,000	FY 94
Right-of-way	\$ 5,612,000	No Est.	
Utilities	LGPA*	LGPA	

*LGPA to be sent after concept approval.

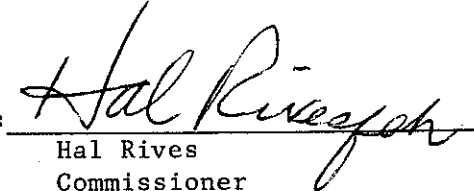
I recommend that we approve this project concept report, that the project be removed from Preprogram Status and added to the Construction Work Program for implementation. Comments of the District Engineer will be considered in the design of the project.

WJD/WLP/se

CONCUR:


G. C. Lewis
State Highway Engineer

APPROVED:


Hal Rives
Commissioner

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA****INTERDEPARTMENT CORRESPONDENCE****RECEIVED****AUG 13 1990****PRECONSTRUCTION**

FILE FR-104-1 (39) Forsyth County **OFFICE** Atlanta, Georgia
P.I. No. 121980
Widening & Reconstruction of SR 141 **DATE** August 10, 1990

FROM Robert E. Humphrey, Project Review Engineer *R.E.H.*

TO William J. Durrence, Director of Preconstruction

SUBJECT PROJECT CONCEPT REPORT

We have reviewed the attached Concept Report for this Major project.

We have received signed cover sheets from the following offices:

1. Traffic and Safety
2. Environmental
3. District Engineer

This report is satisfactory for approval.

The estimated costs of this project are as follows:

Construction	\$13,800,000
Inflation (5% per year)x 3 yrs.	2,070,000
E & C (10%)	1,587,000
Preliminary Engineering (5%)	793,500
Right of Way	5,612,000
Utilities	0

MJB/jmf

Attachments

c: Walker W. Scott, Jr.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

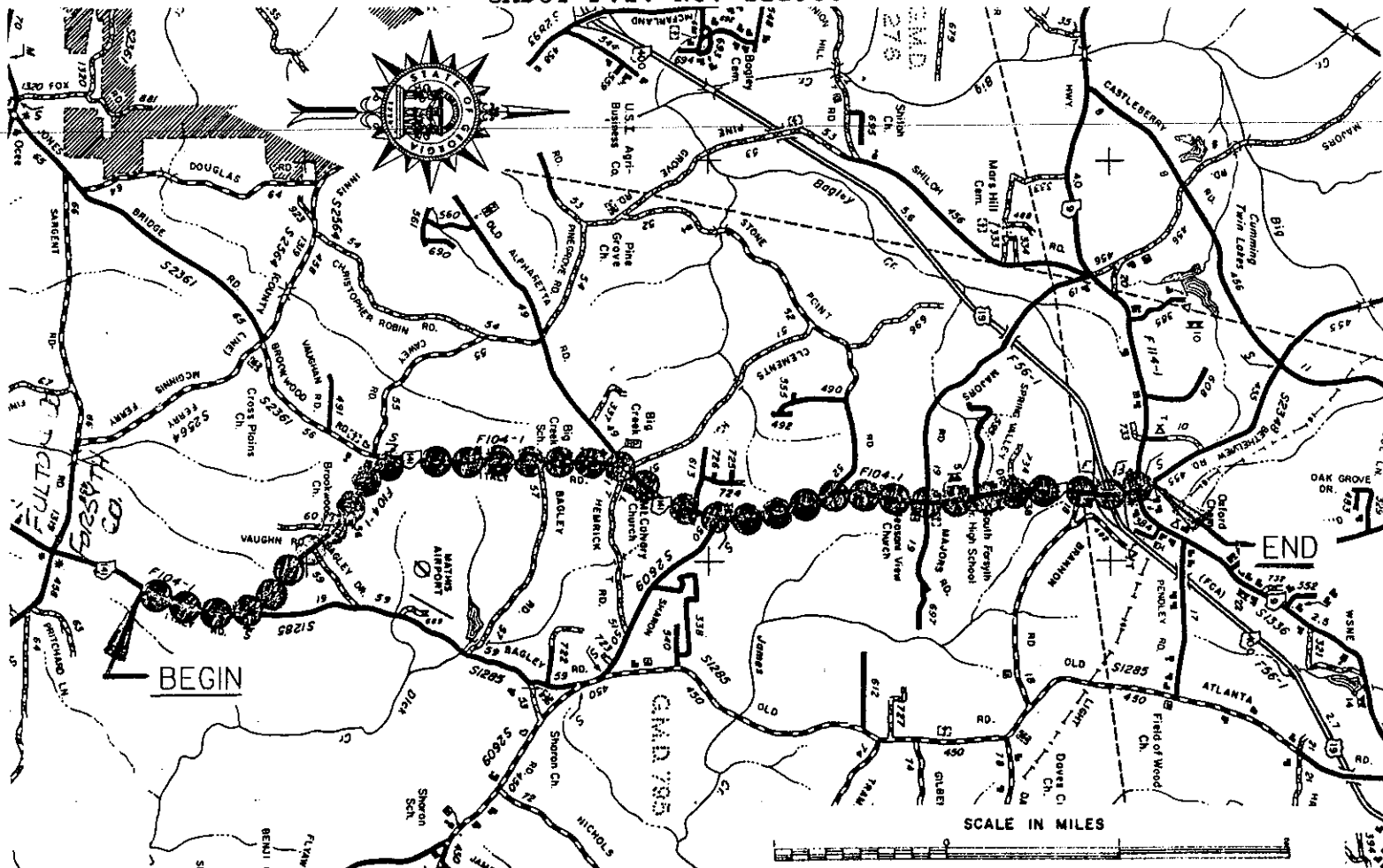
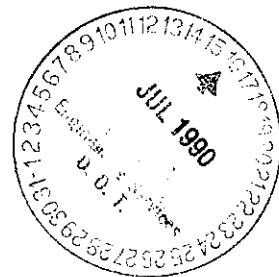
PROJECT CONCEPT REPORT

FR-104-1(39) FORSYTH COUNTY

FEDERAL ROUTE NO: F104-1

STATE ROUTE NO: 141

GADOT P.I. NO: 121980



Date of Report: July 10, 1990

RECOMMENDATION FOR APPROVAL

July 16, 1990
DATE

Walker Wood
State Road & Airport Design Engineer

DATE

State Environmental Engineer

DATE

State Bridge & Structural Engineer

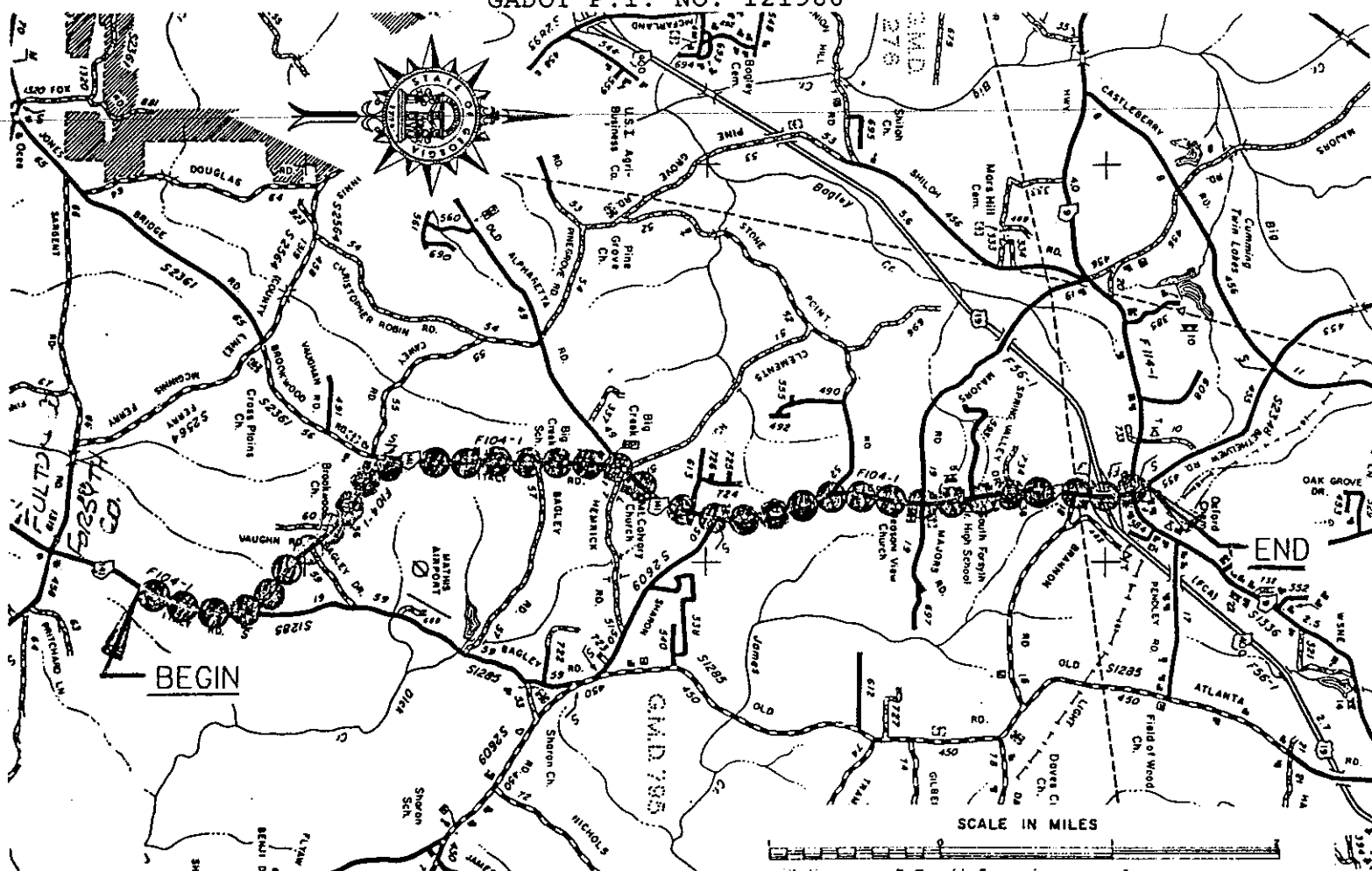
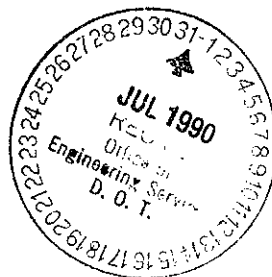
DATE

State Traffic & Safety Engineer

DATE

District Engineer

FEDERAL ROUTE NO: F104-1
STATE ROUTE NO: 141
GADOT P.I. NO: 121980



Date of Report: July 10, 1990

RECOMMENDATION FOR APPROVAL

July 16, 1990
DATE

Walburton
State Road & Airport Design Engineer

DATE _____

State Environmental Engineer

DATE _____

State Bridge & Structural Engineer

DATE _____

State Traffic & Safety Engineer

DATE July 30, 1990

Hugh L. Tyner
District Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE



FILE FR-104-1 (39), Forsyth County
P. I. No. 121980

OFFICE Gainesville, Georgia

DATE July 30, 1990

FROM Hugh L. Tyner, District Engineer *HLT*

TO Robert E. Humphrey, Project Review Engineer - Engineering Services

SUBJECT Project Concept Report

Reference to your letter concerning the above project, this office has reviewed the proposed concept for this section of roadway and concurs this roadway should be upgraded to a four-lane divided roadway, 55 MPH Speed Design. The existing roadway has been increased to three lanes in sections along this proposed termini. I recommend we leave the three lane section in place on whichever side it ends up on. The rapid growth will require expanding the roadway in a short period of time after the completion of this project.

I request the project extend through the intersection of SR 9 up Bethelview and a traffic signal should be placed at this intersection.

Completion of this project will provide a safer, more efficient mode of travel for those desiring to use this corridor.

HLT:shg

attachment

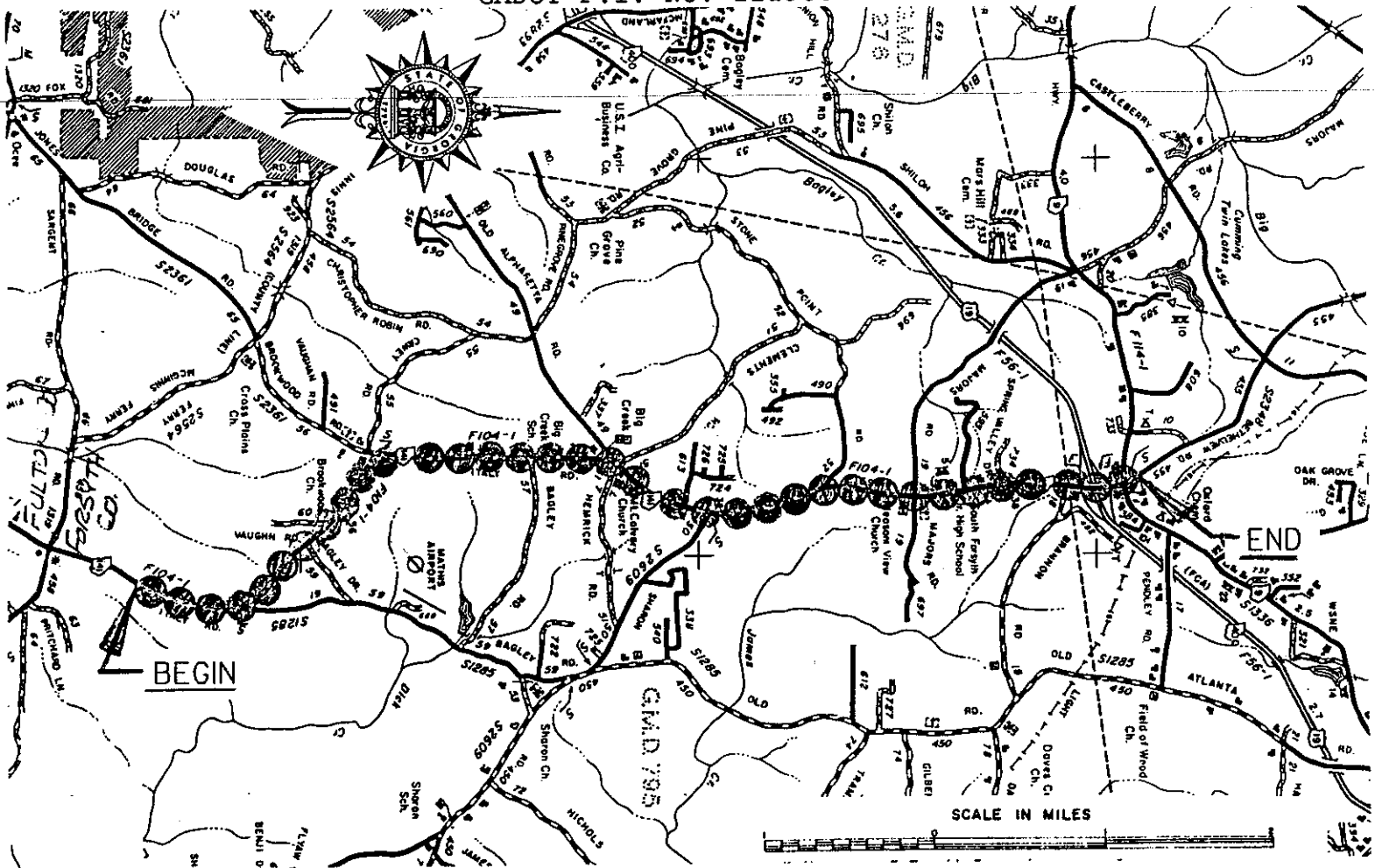


DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

PROJECT CONCEPT REPORT

FR-104-1(39) FORSYTH COUNTY

FEDERAL ROUTE NO: F104-1
STATE ROUTE NO: 141
GADOT P.I. NO: 121980



Date of Report: July 10, 1990

RECOMMENDATION FOR APPROVAL

July 16, 1990
DATE

Walker
State Road & Airport Design Engineer

DATE

State Environmental Engineer

DATE

State Bridge & Structural Engineer

DATE

Ron Coleman
State Traffic & Safety Engineer

DATE

District Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE



FILE FR-104-1 (39)
Forsyth County
P.I. No. 121980

OFFICE Atlanta, Ga.

DATE July 23, 1990

FROM *PC* Ron Colvin, P.E., State Traffic & Safety Engineer
TO Robert E. Humphrey, P.E., Project Review Engineer

SUBJECT Project Concept Report Review

We have reviewed the concept report on the above project for the widening of S.R. 141 from an existing two lane roadway to a four lane facility, two 12 ft. lanes in each direction, with a 44 ft. depressed median and shoulder widths to meet current design specifications. The project begins approximately 0.6 miles north of the Fulton County Line (McGinnis Ferry Road) and continues north to S.R. 9. The length of project is 6.21 miles. The design speed is 55 mph.

We believe this project will provide for safety and operational capacity. Therefore, approval is recommended.

JJD:LEO:lw

Attachment (signature page)

cc: Walker W. Scott; Hugh Tyner - Gainesville

FR-104-1 (39) FORSYTH COUNTY

The map shows the Douglas Express route from Douglas, Georgia, to Atlanta, Georgia. The route is marked with a line of black dots. Key locations along the route include Douglas, Shiloh, and Atlanta. The map includes a compass rose, a scale bar, and various labels for roads, landmarks, and geographical features.

Geographical Features and Landmarks:

- Compass Rose:** Located in the upper left, showing North (N), South (S), East (E), and West (W).
- Scale Bar:** Located at the bottom right, indicating a distance of 1 mile.
- Landmarks:**
 - Douglas:** The starting point of the route, marked with a large 'X' and the word 'BEGIN'.
 - Shiloh:** A major location along the route, marked with a large 'X' and the word 'END'.
 - Atlanta:** The destination of the route, marked with a large 'X' and the word 'END'.
- Roads:**
 - US 1:** The main route from Douglas to Atlanta.
 - US 42:** A branch road from Douglas to Shiloh.
 - US 41:** A branch road from Shiloh to Atlanta.
- Other Labels:**
 - DOUGLAS:** The starting point of the route.
 - SHILOH:** A major location along the route.
 - ATLANTA:** The destination of the route.
 - US 1:** The main route from Douglas to Atlanta.
 - US 42:** A branch road from Douglas to Shiloh.
 - US 41:** A branch road from Shiloh to Atlanta.

RECOMMENDATION FOR APPROVAL

July 16, 1990
DATE

DATE _____ State Road & Airport Design Engineer

DATE July 31, 1990

Frank L. Danchely
State Environmental Engineer

DATE _____

State Bridge & Structural Engineer

DATE _____

State Traffic & Safety Engineer

DATE _____

District Engineer

PROJECT CONCEPT REPORT

P.I. NO: 121980

PROJECT NO: FR-104-1(39)

FORSYTH COUNTY

PREVIOUS PROJECT NO.:

ROUTE NO: SR 141

LOCATION: ON SR 141 BEGINNING APPROXIMATELY 0.6 MILE NORTH OF THE FULTON COUNTY
LINE AND CONTINUING NORTH TO SR 9.

TRAFFIC: CURRENT ADT: 15,550 (1994)

PROJECTED ADT: 29,150 (2014)

EXISTING TYPICAL SECTION: TWO-12' WIDE TRAVEL LANES. ASPHALTIC CONCRETE
PAVEMENT. 5 FOOT WIDE GRASSED SHOULDERS.

EXISTING MAJOR STRUCTURES: EXISTING BRIDGE OVER SR 400 (APPROXIMATELY 60' X 340')

STATEMENT OF NEED AND PURPOSE OF PROJECT: (SEE ATTACHMENT)

LENGTH: 6.21 MILES

BEGINNING: APPROXIMATELY 0.6 MILE NORTH OF FULTON COUNTY LINE (MCGINNIS
FERRY ROAD)

ENDING: STATE ROUTE 9

PDP CLASS.: MAJOR

FUNCTIONAL CLASS.: RURAL-MAJOR ARTERIAL

MAX DEGREE OF CURVE: 5^30' DEG. MAX GRADES: ^{4.5}~~4.6~~ % DESIGN SPEED: 55 MPH

PROPOSED TYPICAL SECTION: RETAIN AND RECONSTRUCT EXISTING LANES, EXCEPT WHERE
VERTICAL OR HORIZONTAL ALIGNMENT CHANGES ARE REQUIRED
TO MEET DESIRABLE SPEED DESIGN. ADD TWO-12' WIDE
TRAVEL LANES, 44' WIDE GRASSED MEDIAN, 10' WIDE RURAL
TYPE SHOULDERS. 4' WIDE PAVED OUTSIDE SHOULDERS.
2' WIDE PAVED MEDIAN SHOULDERS. APROXIMATELY 200'
WIDE RIGHT-OF-WAY.

MAJOR STRUCTURES: WIDEN EXISTING BRIDGE OVER SR 400 TO 88 FEET.

TYPE ACCESS: CONTROLLED BY DRIVEWAY PERMIT.

TRAFFIC CONTROL DURING CONSTRUCTION: CONSTRUCT UNDER TRAFFIC.

ESTIMATED COST:

ITEM:	TOTAL AMOUNT
R/W	\$ 5,612,000
UTILITIES	0
SUBTOTAL	5,612,000
CONSTRUCTION	6,770,304
INFLATION	744,733
E&C (10%)	677,030
TOTAL CONSTRUCTION	\$ 8,192,067

PERMITS REQUIRED: CORPS OF ENGINEERS NATIONWIDE

LEVEL OF ENVIRONMENTAL ANALYSIS: ENVIRONMENTAL ASSESSMENT

LEVEL OF PUBLIC INVOLVEMENT: PUBLIC HEARING TO BE HELD

TIME SAVING PROCEDURES APPROPRIATE: YES () NO (X)

DESIGN VARIANCES REQUIRED: NONE ANTICIPATED

ALTERNATIVES CONSIDERED: NO BUILD - REJECTED

OTHER PROJECTS IN AREA: SAP-141(32) GWINNETT, BHF-F-104-1(29) GWINNETT-FULTON,
FR-104-1(33) FULTON, MLP-141(28) FULTON-FORSYTH,
MLP-141(30) FORSYTH, SR-2343(7), (8) & (9) FULTON

CONCEPT TEAM MEETING HELD: MAY 17, 1990
PRESENT: SEE ATTACHED LIST

FIELD REVIEW HELD: TO BE HELD LATER.

COMMENTS: THERE ARE SIX POSSIBLE HISTORIC SITES WITHIN THE LIMITS OF THIS
PROJECT.

UNDERGROUND STORAGE TANKS: EIGHT POSSIBLE SITES.

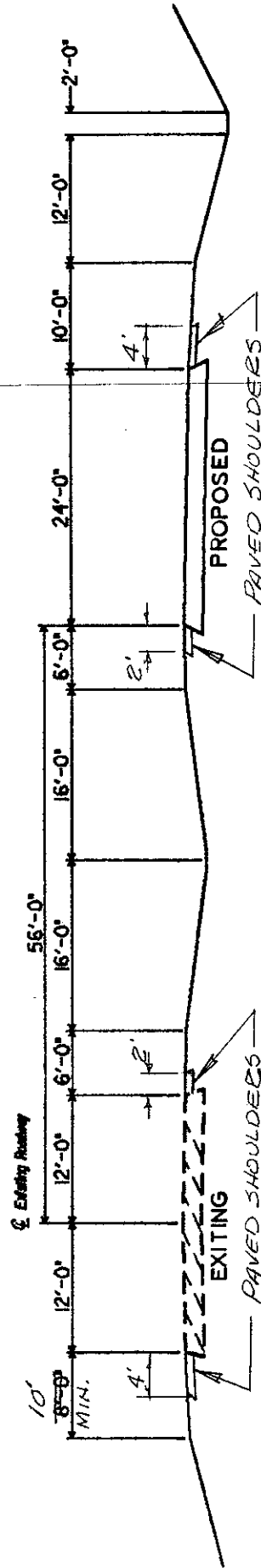
DISPLACEMENTS: 9 RESIDENCES & 3 COMMERCIAL

ATTACHMENTS: PRELIMINARY COST ESTIMATE, NEED AND PURPOSE STATEMENT,
CONCEPT TEAM MEETING ATTENDANCE LIST, TYPICAL SECTION.

TYPICAL SECTION

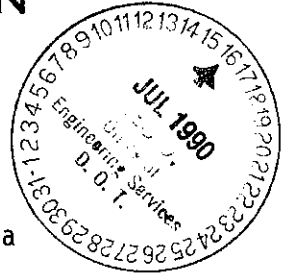
NO SCALE

44' MEDIAN



DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE



FILE FR-104-1(39) Forsyth County
P.I. No. 121980

OFFICE Atlanta

DATE July 11, 1990

FROM *Walker W. Scott Jr.*
Walker W. Scott Jr., P.E., State Road & Airport Design Engineer

TO Robert E. Humphrey, P.E., Project Review Engineer

SUBJECT Project Concept Report Approval

Attached is a copy of the project concept report of the above project for your review and further handling. If there are any additional questions, please contact Hank Ashmore at 656-5180.

WWS:HLA:bc
Attachments

c: Juan Durrence
J.B. Johnson, w/att
Frank Danchetz, w/att
Ron Colvin, w/att
Hugh Tyner, w/att
Paul Liles, w/att

PRELIMINARY COST ESTIMATE

PREPARED BY: BILL FERGUSON

DATE: JULY 9, 1990

ESTIMATED LETTING DATE: FY 1994

PROJECT NO: FR-104-1(39)

COUNTY: FORSYTH

P.I. NO: 121980

MILEAGE: 6.21

PROJECT DESCRIPTION: WIDENING AND RECONSTRUCTION OF SR 141 FROM 0.6 MILE
NORTH OF FULTON COUNTY LINE (MCGINNIS FERRY ROAD)
NORTH TO SR 9.

~~PROPOSED CONCEPT: RETAIN AND RECONSTRUCT EXISTING LANES, EXCEPT WHERE VERTICAL
OR HORIZONTAL ALIGNMENT CHANGES ARE REQUIRED. ADD TWO-12'
WIDE TRAVEL LANES, 44' WIDE GRASSED MEDIAN, 10' WIDE RURAL
TYPE SHOULDERS. APPROXIMATELY 200' WIDE R/W. WIDEN EXISTING
BRIDGE.~~

EXISTING ROADWAY (IF APPLICABLE): TWO-12' WIDE TRAVEL LANES. ASPHALTIC CONCRETE
PAVEMENT. 5' WIDE GRASSED SHOULDERS.

TRAFFIC: EXISTING: 15,550 (1994) DESIGN: 29,150 (2014)

() PROGRAMMING PROCESS (X) CONCEPT DEVELOPMENT () DURING PROJECT DEV.

PROJECT COSTS

A. RIGHT-OF-WAY:

1. PROPERTY (land & easements)	LAND \$2,475,000	\$	2,477,000
	EASEMENT \$2,000		
2. DISPLACEMENTS	RELOCATIONS \$308,000	\$	308,000
3. OTHER COST (adm./court, inflation)	IMPROVE. \$733,500	\$	2,827,000
	ADM/COURT \$1,583,300 INFLATION \$510,200		
	SUBTOTAL:	\$	5,612,000

B. REIMBURSABLE UTILITIES:

1. RAILROAD	\$	N/A
2. TRANSMISSION LINES	\$	N/A
3. SERVICES	\$	N/A
SUBTOTAL:	\$	0

C. MAJOR STRUCTURES:

1. RETAINING WALLS	\$	0
2. BRIDGES 10,200 SQ.FT. @ \$45/SQ.FT.	\$	459,000
3. DETOUR BRIDGES	\$	0
4. BOX CULVERTS	\$	0
SUBTOTAL:	\$	459,000

D. GRADING AND DRAINAGE

1. EARTHWORK: 200,000 C.Y. BORROW @ \$2.76/C.Y.	\$	1,091,600
380,000 C.Y. UNCL.EX. @ \$1.42/C.Y.		
2. DRAINAGE:		
a. Cross Drain Pipe (exc box culverts)	\$	280,187
2360'-18" PIPE @ \$19.23 3010'-24" PIPE @ \$25.40		
450'-30" PIPE @ \$35.58 160 EA.18"FES @ \$246.34		
62 EA.24"FES @ \$320.16 6 EA.30"FES @ \$492.00		
b. Curb and Gutter 3800' @ \$7.30	\$	27,740
c. Longitudinal System (incl catch basins)	\$	182,067
5250'-15"PIPE @ \$15.81 70 EA.15"FES @ \$197.00		
SUBTOTAL:	\$	1,581,594

E. BASE AND PAVING:

1. Aggregate Base 104,776 TONS @ \$11.00	\$	1,152,536
2. Asphalt Paving LEVELING 5000 TONS @ \$31.00	\$	2,560,010
ASPH.CONC."E" 18,854 TONS @ \$31.00		
ASPH.CONC."B" 25,575 TONS @ \$30.00		
ASPH.CONC.BASE 38,653 TONS @ \$27.25		
3. Concrete Paving	\$	0
4. Other AGG.SURF CRS 2000 TONS @ \$12.80	\$	42,744
TACK COAT 22,859 GAL @ \$0.75		
SUBTOTAL:	\$	3,755,290

F. LUMP ITEMS:		
1. TRAFFIC CONTROL	\$	45,000
2. CLEARING AND GRUBBING	\$	525,000
3. LANDSCAPING	\$	0
4. EROSION CONTROL-SILT FENCE\$14,800 BALED STAW\$13,550_	\$	154,170
PSRM \$32,500 GRASSING \$65,000 BTGF \$10,150		
STRAW MULCH \$5,500 FERT.,LIME & FET.NIT.\$28,740		
SILT GATES \$12,280	\$	0
5. DETOURS	\$	
SUBTOTAL:		\$ 724,170

G. MISCELLANEOUS:		
1. LIGHTING	\$	0
2. SIGNING - STRIPING	\$	125,000
3. GUARDRAIL 10,000'@ \$10.71 15 EA.TY.1 ANCH @ \$325_	\$	125,250
15 EA.TY.9 ANCH.@ \$885.00		
4. SIGNAL - SIDEWALK - MEDIAN BARRIER	\$	0
SUBTOTAL:		\$ 250,250

H. SPECIAL FEATURES:	\$	0

ESTIMATE SUMMARY

A. RIGHT-OF-WAY _____ \$ 5,612,000
B. REIMBURSABLE UTILITIES _____ \$ 0

CONSTRUCTION ESTIMATE SUMMARY

C. MAJOR STRUCTURES _____ \$ 459,000
D. GRADING AND DRAINAGE _____ \$ 1,581,594
E. BASE AND PAVING _____ \$ 3,755,290
F. LUMP ITEMS _____ \$ 724,170
G. MISCELLANEOUS _____ \$ 250,250
H. SPECIAL FEATURES _____ \$ 0

SUBTOTAL CONSTR COST _____ \$ 6,770,304
E. & C. (10%) _____ \$ 677,030
INFLATION (5% PER YEAR) _____ \$ 744,733
TOTAL CONSTRUCTION COST _____ \$ 8,192,067

GRAND TOTAL PROJECT COST _____ \$ 13,804,067 Use 13,800,000

Need and Purpose Statement
SR 141
Fosyth County

The rapid development of North Fulton and Gwinnett Counties is extending along the SR 141 Corridors into southern Forsyth County. Windward and Technology Park at John's Creek, located in both Forsyth and Fulton counties are major office development which will generate a significant amount of traffic. High income residential development is now locating in the SR 141 Corridor as a result of this kind of development. Major development will also occur at SR 9 and SR 141 at the Georgia 400 interchange. The widening of SR 141, from SR 9 to the Fulton County line will be required to handle higher traffic volumes generated by these developments.

SIGN-IN SHEET
CONCEPT MEETING

PROJECT NO: FR 104-1(39 FORSYTH COUNTY

P.L. NO: 121980

NAME	DEPARTMENT/ORGANIZATION	PHONE NUMBER
FRANK GOLDER	DOT GEN. OFFICE	656-3481
CHARLES WHITWORTH	DOT DISTRICT 1	247-5520
MELVIN COLLINS	DOT OM&R	363-7549
LARRY PACHOUD	DOT R/W GEN. OFFICE	986-1009
HARVEY KEEPLER	DOT ENVIRONMENTAL	699-4409
LOUIS OWEN	DOT TRAFFIC & SAFETY	656-5495
DON EMERY	DOT ROAD DES GEN. OFFICE	656-5390
JOE FLETCHER	DOT DISTRICT 1	532-5563
DARYL CRAWFORD	DOT PLANNING	656-5480
DAVID KELLEY	FHWA	247-3037
WALKER SCOTT	DOT ROAD DESIGN	656-5386
HENRY L. ASHMORE	DOT ROAD DESIGN	656-5180
WILLIAM H. FERGUSON	DOT ROAD DESIGN	656-5180